Permit to Construct Application

Frazier Industrial Company

Prepared for:
Frazier Industrial Company
3770 Poleline Road
Pocatello, ID 83201

Prepared by:
JBR Environmental Consultants, Inc.
7669 West Riverside Drive, Suite 101
Boise, ID 83714

September 10, 2007

IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY

1410 North Hilton
Boise, Idaho 83706-1253

RECEIPT

9/11/07
DATE

RECEIVED FROM Tri-Valley

SOURCE
Cash ☐ Check ☑ Money Order ☐ No. 31800

DESCRIPTION	AMOUNT OF PAYMENT
PTC Application Fee	1000 00
T2C 005-00057	

RECEIVED BY Y

TOTAL RECEIVED 1000 00

PID	OBS	CA	SUB-OBJ	WP	BE

№ 82773

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APPENDIXES

1.0 PROCESS DESCRIPTION

Frazier Industrial Company manufactures structural steel storage systems. At the Pocatello facility steel is delivered to the facility and is then cut and welded into product components. The type of welding conducted at the facility is metal inert gas welding with a carbon steel L-50 electrode. The welded steel components are then bundled and prepared to be coated with paint.

The steel components are coated using a dip tank paint system consisting of three large rectangular steel tanks used to contain the paint. The dip tank system is capable of keeping the paint mixed, filtered and within a predetermined temperature.

Steel components are typically dipped and kept in the dip tank for a minimum of two minutes. Once the steel components are coated they are hoisted out of the tank and allowed to drain for approximately 25 minutes. Next, a nap paint roller is used to smooth out any excess paint and coat unpainted surfaces. The painted steel components are then sent to the storage area where the finished product is stored until it is shipped to the customer.

1.1 Equipment List

Included in Appendix B is a scaled plot plan which identifies all equipment that is requested to be included in the PTC permit. Included in Appendix C are the PTC application forms which describe in detail all equipment that is requested to be included in the PTC permit.

2.0 REGULATORY APPLICABILITY

A review of state and local air quality regulations has been conducted and each regulation is described in the following sections. Included in Appendix C is the completed federal regulatory applicability PTC form.

2.1 National Ambient Air Quality Standards (NAAQS)

Primary National Ambient Air Quality Standards (NAAQS) are identified in 40 CFR Part 50 and define levels of air quality, which the United States Environmental Protection Agency (USEPA) deems necessary to protect the public health. Secondary NAAQS define levels of air quality, which the USEPA judges necessary to protect public welfare from any known, or anticipated, adverse effects of a pollutant. Examples of public welfare include protecting wildlife, buildings, national monuments, vegetation, visibility, and property values from degradation due to excessive emissions of criteria pollutants.

Specific standards for the following pollutants have been promulgated by USEPA: PM10, SO2, NOx, CO, ozone, and lead. The Frazier facility emits PM10, and VOCs, a precursor to ozone. The facility is a minor source with respect to PSD and Title V as it will not exceed any major source thresholds.

2.2 National Emission Standards for Hazardous Air Pollutants (NESHAPs)

Two sets of National Emissions Standards for Hazardous Air Pollutants (NESHAPs) may potentially apply to the Frazier facility. The first NESHAP regulations were developed under the auspices of the original CAA. These standards are codified in 40 CFR Part 61, and address a limited number of pollutants and industries. 40 CFR Part 61 regulations do not apply to this planned facility.

Newer regulations are codified in 40 CFR Part 63 under the authority of the 1990 Clean Air Act Amendments (CAAA). These standards regulate HAP emissions from specific source categories and typically affect only major sources of HAPs. Part 63 regulations are frequently called Maximum Achievable Control Technology (MACT) standards. Major HAP sources have the PTE 10 tpy or more of any single HAP or 25 tpy or more of all combined HAP emissions. It was recently determined per NOV Case No. E-070016 that as of December 31, 2003 Frazier became a major source for Hazardous Air Pollutants (HAPs). Based on past Potential to Emit (PTE) levels Frazier is subject to the provisions of 40 CFR 63 Subpart MMMM-National Emission Standards for Surface Coating of Miscellaneous Metal parts and Products. Although Frazier was a major source of HAPs as of 2003, the current PTE is less than major source levels. Since 2003 Frazier has changed several of their coatings to low-HAP equivalent coatings. The HAPs emitted from this facility include xylene, toluene, ethyl benzene and cumene.

2.3 State Rules

The Idaho Administrative Procedure Act (IDAPA) promulgates several emissions regulations that apply to Frazier in addition to those listed above.

2.3.1 NAAQS

IDAPA 58.01.01.203.02 establishes requirements for compliance with the NAAQS. According to the IDEQ Air Quality Modeling Guideline the modeling threshold, below which modeling is generally not required is 1.0 ton/yr for PM-10 emissions. Frazier believes that because the emission rate is below the modeling threshold and since the emissions are confined to the interior of the building the emissions will not significantly contribute to violating the NAAQS standard for PM-10.

2.3.2 Toxic Air Pollutants

IDAPA 58.01.01.585 and 586 establishes requirements for compliance with toxic air pollutants. Frazier demonstrates compliance with the standards.

3.0 EMISSION SUMMARY

A summary of the potential emissions for the facility is presented in Table 3-1. Emission calculations have been completed for: PM10, VOCs and both individual and combined hazardous air pollutants. Detailed emission calculations are included in Appendix A. Permit application forms are included as Appendix C.

Table 3-1. Frazier Industrial Company PTE

PM_{10} (tpy)	VOC (tpy)	Individual HAP (tpy)	Combined HAP (tpy)
0.13	17.19	0.43	1.24

APPENDIX A

EMISSION CALCULATIONS

FRAZIER INDUSTRIAL COMPANY
PTE SUMMARY

Source	Pollutant					
	PM-10		VOC		HAPs	
	lb/hr	ton /yr	lb/hr	ton/yr	lb/hr	ton /yr
Dip Tank 1			0.54	1.56	0.04	0.10
Dip Tank 2			0.54	1.56	0.04	0.10
Dip Tank 3			1.11	3.24	0.22	0.63
Totes			3.72	10.83	0.14	0.40
Welding	0.03	0.13				
TOTAL	**0.03**	**0.13**	**5.90**	**17.19**	**0.43**	**1.24**

Source	TAPs								
	n-Butyl Alcohol	Xylene	Eth Benz	Stoddard	Toluene	Cumene	Iron	Mang	Copper
	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
Dip Tank 1	0.04	0.02	0.01	na	na	na	na	na	na
Dip Tank 2	0.04	0.02	0.01	na	na	na	na	na	na
Dip Tank 3	na	0.02	0.02	0.33	0.17	0.02	na	na	na
Totes	na	0.08	na	na	na	0.06	na	na	na
Welding	na	na	na	na	na	na	0.02	2.0E-03	1.1E-04
TOTAL	**0.09**	**0.15**	**0.04**	**0.33**	**0.17**	**0.07**	**0.02**	**0.00**	**0.00**
EL (lb/hr)	10	29	29	35	25	16.3	0.333	0.067	0.013
EL Exceeded (Y/N)	**No**	**No**	**No**	**No**	**No**	**No**	**No**	**No**	**No**

DIP TANK 1
POTENTIAL TO EMIT
VOC and HAP

Max VOC Coating:	Fast Dry Orange- High Solids	
Coating ID:	43-62154	
Density (lb/gal):	10.39	(mixture)
Hours of Operation (hr/yr):	5,824	
Potential Gallons Mixture Applied (gal/yr)[b]:	960	
Potential Gallons (gal/hr):	0.16	

Volatile Component	CAS No.	Max Wt. Fraction	VOC Emissions (lb/hr)	VOC Emissions (T/yr)	HAP Emissions (lb/hr)	HAP Emissions (T/yr)	TAP Emissions (lb/hr)
1,2,4-Trimethylbenzene	95-63-6	0.093	0.16	0.47	na	na	na
n-Butyl Alcohol	71-36-3	0.025	0.04	0.12	na	na	0.04
Xylene (mixed isomers)	1330-20-7	0.014	0.02	0.07	0.024	0.07	0.02
Ethyl Benzene	100-41-4	0.007	0.01	0.03	0.012	0.03	0.01
Other VOCs	108-67-8	0.1736	0.30	0.87	na	na	na
TOTAL [a]		0.31280	0.54	1.56	0.04	0.10	na

[a]Only non-exempt VOC, HAP and TAP components are summed.

[b]Total Orange Paint Usage is 1,920 gal/yr and is divided between Tanks #1 and #2

DIP TANK 2
POTENTIAL TO EMIT
VOC and HAP

Max VOC Coating:	Fast Dry Orange- High Solids	
Coating ID:	43-62154	
Density (lb/gal):	10.39	(mixture)
Hours of Operation (hr/yr):	5,824	
Potential Gallons Mixture Applied (gal/yr)[b]:	960	
Potential Gallons (gal/hr):	0.16	

Volatile Component	CAS No.	Max Wt. Fraction	VOC Emissions (lb/hr)	VOC Emissions (T/yr)	HAP Emissions (lb/hr)	HAP Emissions (T/yr)	TAP Emissions (lb/hr)
1,2,4-Trimethylbenzene	95-63-6	0.093	0.16	0.47	na	na	na
n-Butyl Alcohol	71-36-3	0.025	0.04	0.12	na	na	0.04
Xylene (mixed isomers)	1330-20-7	0.014	0.02	0.07	0.02	0.07	0.02
Ethyl Benzene	100-41-4	0.007	0.01	0.03	0.01	0.03	0.01
Other VOCs	108-67-8	0.1736	0.30	0.87	na	na	na
TOTAL [a]		0.31280	0.54	1.56	0.04	0.10	na

[a]Only non-exempt VOC, HAP and TAP components are summed.

[b]Total Orange Paint Usage is 1,920 gal/yr and is divided between Tanks #1 and #2

DIP TANK 3
POTENTIAL TO EMIT
VOC and HAP

Max VOC Coating:	H.S. Frazier Blue	
Coating ID:	EH5116-50-01	
Density (lb/gal):	9.07	(mixture)
Hours of Operation (hr/yr):	5,824	
Potential Gallons Mixture Applied (gal/yr):	1,066	
Potential Gallons (gal/hr):	0.18	

Volatile Component	CAS No.	Max Wt. Fraction	VOC Emissions (lb/hr)	VOC Emissions (T/yr)	HAP Emissions (lb/hr)	HAP Emissions (T/yr)	TAP Emissions (lb/hr)
Mineral Spirits (Stoddard)	8052-41-3	0.200	0.33	0.97	na	na	0.33
Toluene	108-88-3	0.100	0.17	0.48	0.17	0.48	0.17
1,2,4-Trimethylbenzene	95-63-6	0.050	0.08	0.24	na	na	na
1,3,5-Trimethylbenzene	108-67-8	0.030	0.05	0.15	na	na	na
Cumene	98-82-8	0.010	0.02	0.05	0.017	0.05	0.02
Ethyl Benzene	100-41-4	0.010	0.02	0.05	0.017	0.05	0.02
Xylene	1330-20-7	0.010	0.02	0.05	0.017	0.05	0.02
Other VOCs	108-67-8	0.260	0.43	1.26	na	na	na
	TOTAL[a]	0.670	1.11	3.24	0.22	0.63	na

[a]Only non-exempt VOC, HAP and TAP components are summed.

SOLVENT STORAGE TOTES
POTENTIAL TO EMIT
VOC and HAP

Max VOC Coating:	Aromatic 100 Fluid	
Coating ID:	EQ940652	
Density (lb/gal):	7.29	(mixture)
Hours of Operation (hr/yr):	5,824	
Potential Gallons Mixture Applied (gal/yr):	3,000	
Potential Gallons (gal/hr):	0.52	

Volatile Component	CAS No.	Max Wt. Fraction	VOC Emissions (lb/hr)	VOC Emissions (T/yr)	HAP Emissions (lb/hr)	HAP Emissions (T/yr)	TAP Emissions (lb/hr)
1,2,4-Trimethylbenzene	95-63-6	0.320	1.20	3.50	na	na	na
Cumene	98-82-8	0.015	0.06	0.16	0.056	0.16	0.06
Xylene	1330-20-7	0.022	0.08	0.24	0.083	0.24	0.08
Other VOCs	108-67-8	0.633	2.38	6.92	na	na	na
TOTAL[a]		0.990	3.72	10.83	0.14	0.40	na

[a]Only non-exempt VOC, HAP and TAP components are summed.

Carbon Steel Electrode

Welding Wire Usage=	100,000	lb/yr
Welding Wire Usage=	11.42	lb/hr
PM Emission Factor=	0.0026	lb PM/lb electrode
Fume Emission Factor=	0.22	g/min

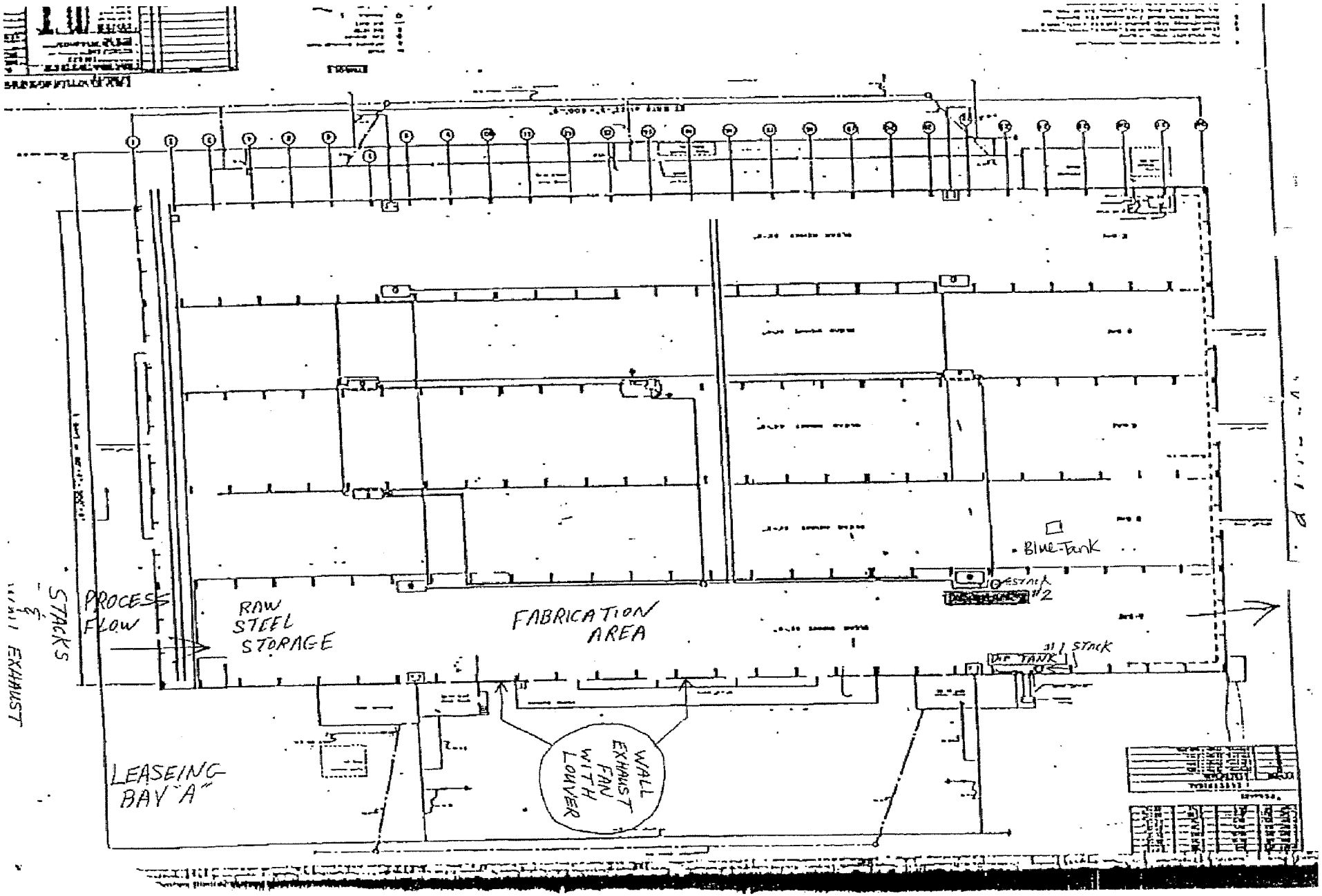
Component	CAS No.	Fume Chemistry	PM-10 Emissions[a] (lb/hr)	PM-10 Emissions[a] (tpy)	TAP Emissions (lb/hr)
Iron	7439-89-6	55%	0.030	0.130	0.016
Manganese	7439-96-5	6.9%	0.0000	0.000	0.002
Copper	7440-50-8	0.39%	0.0000	0.000	0.00011
		TOTAL	**0.030**	**0.130**	

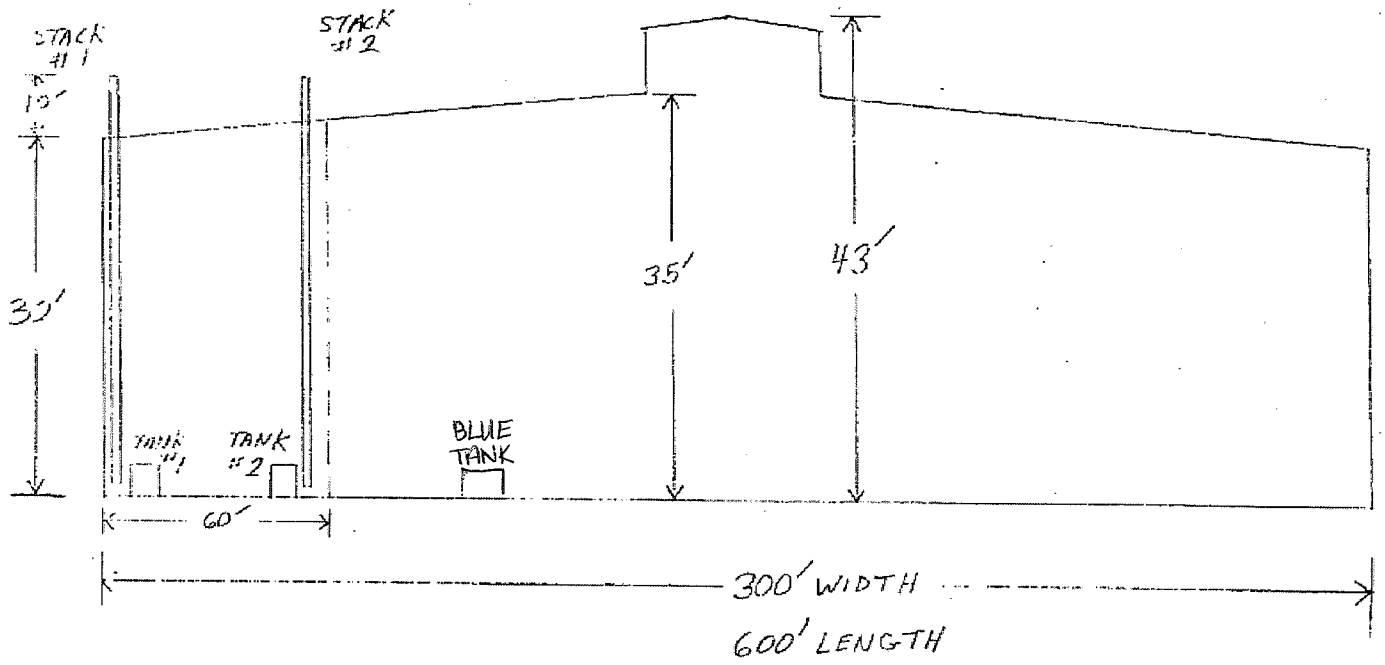
Manufacturer's Information/ MSDS

[a] Assume all particulate emissions are PM-10

APPENDIX B

SCALED PLOT PLAN


PROCESS FLOW
RAW STEEL STORAGE
FABRICATION AREA
LEASEING BAY "A"
WALL EXHAUST FAN WITH LOUVER
BLUE TANK
#2
#1 STACK
DIP TANK
STACKS
EXHAUST


STACK #1
10'
STACK #2
30'
35'
43'
TANK #1
TANK #2
BLUE TANK
60'
300' WIDTH
600' LENGTH

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*Please see instructions on page **Error! Bookmark not defined.** before filling out the form.*

All information is required. If information is missing, the application will not be processed.

IDENTIFICATION

1.	**Company Name**	Frazier Industrial Company
2.	**Facility Name (if different than #1)**	Pocatello
3.	**Facility I.D. No.**	005-00057
4.	**Brief Project Description:**	Manufacturer of Structural Steel Storage Systems

Facility Information

5.	**Owned/operated by: (√ if applicable)**	☐ Federal government ☐ County government ☐ State government ☐ City government
6.	**Primary Facility Permit Contact Person/Title**	Jay Settle, General Manager
7.	**Telephone Number and Email Address**	434-262-2242 jsettle@frazier.com
8.	**Alternate Facility Contact Person/Title**	Paul Anderson
9.	**Telephone Number and Email Address**	208-201-1950 panderson@frazier.com
10.	**Address to which permit should be sent**	3770 Poleline Road, Bldg 38
11.	**City/State/Zip**	Pocatello, ID 83201
12.	**Equipment Location Address (if different than #9)**	
13.	**City/State/Zip**	
14.	**Is the Equipment Portable?**	☐ Yes ☒ No
15.	**SIC Code(s) and NAISC Code**	**Primary SIC: 2542** **Secondary SIC (if any):** **NAICS: 337215**
16.	**Brief Business Description and Principal Product**	Manufacturer of Structural Steel Storage Systems
17.	**Identify any adjacent or contiguous facility that this company owns and/or operates**	

PERMIT APPLICATION TYPE

18.	**Specify Reason for Application**	☐ New Facility ☐ New Source at Existing Facility ☐ Modify Existing Source: Permit No.:_____ Date Issued:_____ ☒ Unpermitted Existing Source: ☒ Required by Enforcement Action: Case No.: E-070016

CERTIFICATION

IN ACCORDANCE WITH IDAPA 58.01.01.123 (RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO), I CERTIFY BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION IN THE DOCUMENT ARE TRUE, ACCURATE, AND COMPLETE.

19.	Responsible Official's Name/Title	Jay Settle
20.	RESPONSIBLE OFFICIAL SIGNATURE	Date: 7 Sept 07
21.	☒ Check here to indicate you would like to review a draft permit prior to final issuance.	

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DEQ USE ONLY
Date Received
Project Number
Payment / Fees Included? Yes ☐ No ☐
Check Number

COMPANY NAME, FACILITY NAME, AND FACILITY ID NUMBER

1. Company Name	Frazier Industrial Company		
2. Facility Name	Pocatello	3. Facility ID No.	005-00057
4. Brief Project Description - One sentence or less	Manufacturer of Structural Steel Storage Systems		

PERMIT APPLICATION TYPE

5. ☐ New Facility ☐ New Source at Existing Facility ☒ Unpermitted Existing Source
☐ Modify Existing Source: Permit No.:_____
Date Issued:_____
☒ Required by Enforcement Action: Case No.: E-070016

6. ☒ Minor PTC ☐ Major PTC

FORMS INCLUDED

Included	N/A	Forms	DEQ Verify
☒	☐	Form GI – Facility Information	☐
☒	☐	Form EU0 – Emissions Units General	☐
☐	☒	Form EU1 - Industrial Engine Information Please Specify number of forms attached: _____	☐
☐	☒	Form EU2 - Nonmetallic Mineral Processing Plants Please Specify number of forms attached: _____	☐
☐	☒	Form EU3 - Spray Paint Booth Information Please Specify number of forms attached: _____	☐
☐	☒	Form EU4 - Cooling Tower Information Please Specify number of forms attached: _____	☐
☐	☒	Form EU5 – Boiler Information Please Specify number of forms attached: 1	☐
☐	☒	Form HMAP – Hot Mix Asphalt Plant Please Specify number of forms attached: _____	☐
☐	☒	Form CBP - Concrete Batch Plant Please Specify number of forms attached: _____	☐
☐	☒	Form BCE - Baghouses Control Equipment	☐
☐	☒	Form SCE - Scrubbers Control Equipment	☐
☒	☐	Forms EI-CP1 - EI-CP4 - Emissions Inventory– criteria pollutants (Excel workbook, all 4 worksheets)	☐
☒	☐	PP – Plot Plan	☐
☐	☒	Forms MI1 – MI4 – Modeling (Excel workbook, all 4 worksheets)	☐
☒	☐	Form FRA – Federal Regulation Applicability	☐

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IDENTIFICATION

Company Name:	Facility Name:	Facility ID No:
Frazier Industrial Company	Pocatello	005-00057
Brief Project Description:	Manufacturer of Structural Steel Storage Systems	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	DIP TANK #1
2. EU ID Number:	T01
3. EU Type:	☐ New Source ☒ Unpermitted Existing Source ☐ Modification to a Permitted Source -- Previous Permit #: Date Issued:
4. Manufacturer:	
5. Model:	
6. Maximum Capacity:	1,920 GAL/YR TOTAL BETWEEN TANKS #1 AND #2
7. Date of Construction:	MARCH 1996
8. Date of Modification (if any)	
9. Is this a Controlled Emission Unit?	☒ No ☐ Yes If Yes, Complete the following section. If No, go to line 18.

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:			
11. Date of Installation:		12. Date of Modification (if any):	
13. Manufacturer and Model Number:			
14. ID(s) of Emission Unit Controlled:			
15. Is operating schedule different than emission units(s) involved?:	☐ Yes ☐ No		
16. Does the manufacturer guarantee the control efficiency of the control equipment?	☐Yes ☐No (If yes, attach and label manufacturer guarantee)		

	Pollutant Controlled					
	PM	PM10	SO_2	NOx	VOC	CO
Control Efficiency						

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	5,824 HR/YR
19. Maximum Operation	8,760 HR/YR

REQUESTED LIMITS

20. Are you requesting any permit limits?	☒ Yes ☐ No (If Yes, check all that apply below)
☐ Operation Hour Limit(s):	
☐ Production Limit(s):	
☒ Material Usage Limit(s):	1,920 GAL/YR ORANGE PAINT TOTAL BETWEEN TANKS #1 AND #2
☐ Limits Based on Stack Testing	
☐ Other:	
21. Rationale for Requesting the Limit(s):	MAXIMUM PROJECTED PAINT USAGE

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IDENTIFICATION

Company Name:	Facility Name:	Facility ID No:
Frazier Industrial Company	Pocatello	005-00057
Brief Project Description:	Manufacturer of Structural Steel Storage Systems	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	DIP TANK #2
2. EU ID Number:	T02
3. EU Type:	☐ New Source ☒ Unpermitted Existing Source ☐ Modification to a Permitted Source -- Previous Permit #: Date Issued:
4. Manufacturer:	
5. Model:	
6. Maximum Capacity:	1,920 GAL/YR TOTAL BETWEEN TANKS #1 AND #2
7. Date of Construction:	MARCH 1996
8. Date of Modification (if any)	
9. Is this a Controlled Emission Unit?	☒ No ☐ Yes If Yes, Complete the following section. If No, go to line 18.

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:			
11. Date of Installation:		12. Date of Modification (if any):	
13. Manufacturer and Model Number:			
14. ID(s) of Emission Unit Controlled:			
15. Is operating schedule different than emission units(s) involved?:	☐ Yes ☐ No		
16. Does the manufacturer guarantee the control efficiency of the control equipment?	☐Yes ☐No (If yes, attach and label manufacturer guarantee)		

	Pollutant Controlled					
	PM	PM10	SO_2	NOx	VOC	CO
Control Efficiency						

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	5,824 HR/YR
19. Maximum Operation	8,760 HR/YR

REQUESTED LIMITS

20. Are you requesting any permit limits?	☒ Yes ☐ No (If Yes, check all that apply below)
☐ Operation Hour Limit(s):	
☐ Production Limit(s):	
☒ Material Usage Limit(s):	1,920 GAL/YR ORANGE PAINT TOTAL BETWEEN TANKS #1 AND #2
☐ Limits Based on Stack Testing	
☐ Other:	
21. Rationale for Requesting the Limit(s):	MAXIMUM PROJECTED PAINT USAGE

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IDENTIFICATION

Company Name:	Facility Name:	Facility ID No:
Frazier Industrial Company	Pocatello	005-00057
Brief Project Description:	Manufacturer of Structural Steel Storage Systems	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	DIP TANK #3
2. EU ID Number:	T03
3. EU Type:	☐ New Source ☒ Unpermitted Existing Source ☐ Modification to a Permitted Source -- Previous Permit #: Date Issued:
4. Manufacturer:	
5. Model:	
6. Maximum Capacity:	1,066 GAL/YR
7. Date of Construction:	2004
8. Date of Modification (if any)	
9. Is this a Controlled Emission Unit?	☒ No ☐ Yes If Yes, Complete the following section. If No, go to line 18.

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:			
11. Date of Installation:		12. Date of Modification (if any):	
13. Manufacturer and Model Number:			
14. ID(s) of Emission Unit Controlled:			
15. Is operating schedule different than emission units(s) involved?:	☐ Yes ☐ No		
16. Does the manufacturer guarantee the control efficiency of the control equipment?	☐Yes ☐No (If yes, attach and label manufacturer guarantee)		

	Pollutant Controlled					
	PM	PM10	SO_2	NOx	VOC	CO
Control Efficiency						

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	5,824 HR/YR
19. Maximum Operation	8,760 HR/YR

REQUESTED LIMITS

20. Are you requesting any permit limits?	☒ Yes ☐ No (If Yes, check all that apply below)
☐ Operation Hour Limit(s):	
☐ Production Limit(s):	
☒ Material Usage Limit(s):	1,066 GAL/YR BLUE PAINT
☐ Limits Based on Stack Testing	
☐ Other:	
21. Rationale for Requesting the Limit(s):	MAXIMUM PROJECTED PAINT USAGE

Emissions Unit - General **Form EU0**

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Please see instructions on page before filling out the form.

IDENTIFICATION		
Company Name: Frazier Industrial Company	Facility Name: Pocatello	Facility ID No: 005-00057
Brief Project Description:	Manufacturer of Structural Steel Storage Systems	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION	
1. Emissions Unit (EU) Name:	SOLVENT STORAGE TOTES
2. EU ID Number:	T04
3. EU Type:	☐ New Source ☒ Unpermitted Existing Source ☐ Modification to a Permitted Source -- Previous Permit #: Date Issued:
4. Manufacturer:	
5. Model:	
6. Maximum Capacity:	3,000 GAL/YR
7. Date of Construction:	2007
8. Date of Modification (if any)	
9. Is this a Controlled Emission Unit?	☒ No ☐ Yes If Yes, Complete the following section. If No, go to line 18.

EMISSIONS CONTROL EQUIPMENT			
10. Control Equipment Name and ID:			
11. Date of Installation:		12. Date of Modification (if any):	
13. Manufacturer and Model Number:			
14. ID(s) of Emission Unit Controlled:			
15. Is operating schedule different than emission units(s) involved?:	☐ Yes ☐ No		
16. Does the manufacturer guarantee the control efficiency of the control equipment?	☐Yes ☐No (If yes, attach and label manufacturer guarantee)		

	Pollutant Controlled					
	PM	PM10	SO_2	NOx	VOC	CO
Control Efficiency						

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)	
18. Actual Operation	5,824 HR/YR
19. Maximum Operation	8,760 HR/YR

REQUESTED LIMITS	
20. Are you requesting any permit limits?	☒ Yes ☐ No (If Yes, check all that apply below)
☐ Operation Hour Limit(s):	
☐ Production Limit(s):	
☒ Material Usage Limit(s):	3,000 GAL/YR AROMATIC 100 SOLVENT
☐ Limits Based on Stack Testing	
☐ Other:	
21. Rationale for Requesting the Limit(s):	MAXIMUM PROJECTED SOLVENT USAGE

Emissions Unit - General **Form EU0**

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 1
01/11/07

Please see instructions on page before filling out the form.

IDENTIFICATION

Company Name:	Facility Name:	Facility ID No:
Frazier Industrial Company	Pocatello	005-00057
Brief Project Description:	Manufacturer of Structural Steel Storage Systems	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	STEEL WELDING
2. EU ID Number:	W01
3. EU Type:	☐ New Source ☒ Unpermitted Existing Source ☐ Modification to a Permitted Source -- Previous Permit #: Date Issued:
4. Manufacturer:	
5. Model:	L-50 CARBON STEEL ELECTRODE
6. Maximum Capacity:	100,000 LB/YR WELDING ELECTRODE
7. Date of Construction:	MARCH 1996
8. Date of Modification (if any)	
9. Is this a Controlled Unit?	☒ No ☐ Yes If Yes, Complete the following section. If No, go to line 18.

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:			
11. Date of Installation:		12. Date of Modification (if any):	
13. Manufacturer and Model Number:			
14. ID(s) of Emission Unit Controlled:			
15. Is operating schedule different than emission units(s) involved?:	☐ Yes ☐ No		
16. Does the manufacturer guarantee the control efficiency of the control equipment?	☐Yes ☐No (If yes, attach and label manufacturer guarantee)		

	Pollutant Controlled					
	PM	PM10	SO_2	NOx	VOC	CO
Control Efficiency						

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	5,824 HR/YR
19. Maximum Operation	8,760 HR/YR

REQUESTED LIMITS

20. Are you requesting any permit limits?	☒ Yes ☐ No (If Yes, check all that apply below)
☐ Operation Hour Limit(s):	
☐ Production Limit(s):	
☒ Material Usage Limit(s):	100,000 LB/YR WIRE ELECTRODE
☐ Limits Based on Stack Testing	
☐ Other:	
21. Rationale for Requesting the Limit(s):	MAXIMUM PROJECTED USAGE

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 1
01/11/07

Please see instructions on page before filling out the form.

IDENTIFICATION		
Company Name:	Facility Name:	Facility ID No:
Frazier Industrial Company	Pocatello	005-00057
Brief Project Description:	Manufacturer of Structural Steel Storage Systems	

APPLICABILITY DETERMINATION	
Will this project be subject to 1990 CAA Section 112(g)? (Case-by-Case MACT)	☒ NO ☐ YES* * If YES then applicant must submit an application for a case-by-case MACT determination [IAC 567 22-1(3)"b" (8)]
Will this project be subject to a New Source Performance Standard? (40 CFR part 60)	☒ NO ☐ YES* *If YES please identify sub-part:
Will this project be subject to a MACT (Maximum Achievable Control Technology) regulation? (40 CFR part 63) THIS ONLY APPLIES IF THE PROJECT EMITS A HAZARDOUS AIR POLLUTANT	☐ NO ☒ YES* *If YES please identify sub-part: MMMM
Will this project be subject to a NESHAP (National Emission Standards for Hazardous Air Pollutants) regulation? (40 CFR part 61)	☒ NO ☐ YES* *If YES please identify sub-part: ____
Will this project be subject to PSD (Prevention of Significant Deterioration)? (40 CFR section 52.21)	☒ NO ☐ YES
Was netting done for this project to avoid PSD?	☒ NO ☐ YES* *If YES please attach netting calculations
If you are unsure how to answer any of these questions call the Air Permit Hotline at 877-5PERMIT	

DEQ AIR QUALITY PROGRAM
1410 N. Hilton
Boise, ID 83706
For assistance: (208) 373-0502

PERMIT TO CONSTRUCT APPLICATION

Company Name:	**Frazier Industrial Company**
Facility Name:	Pocatello
Facility ID No.:	05-00057
Brief Project Description:	Manufacturer of Structural Steel Storage Systems

SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA POLLUTANTS - POINT SOURCES

1.	2.	3.											
		PM_{10}		SO_2		NO_X		CO		VOC		Lead	
Emissions units	Stack ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Point Source(s)													
Dip Tank #1	S01									0.54	1.56		
Dip Tank #2	S02									0.54	1.56		
Dip Tank #3	S02									1.11	3.24		
Solvent Totes	S02									3.72	10.83		
Steel Welding	S02	0.03	0.13										
(insert more rows as needed)													
Total		0.03	0.13							5.90	17.19		

APPENDIX D

MSDS

BLUE PAINT

TRINKOTE
INDUSTRIAL FINISHES

PRODUCT SPECIFICATION

WARNING: TRINKOTE WILL ONLY CONTRACT ON THE TERMS SET FORTH IN THIS DOCUMENT AND NO OTHERS.
YOUR ACCEPTANCE OF PRODUCTION QUANTITIES OF THE COATING DESCRIBED IN THIS DOCUMENT WILL CONSTITUTE YOUR ACCEPTANCE OF THOSE TERMS

CUSTOMER: FRAZIER INC.
ADDRESS: MONTERREY, MX

DATE: July 31, 2003
ATTN

COATING: H.S. FRAZIER BLUE
PRODUCT TYPE: AKLYD ENAMEL

PRODUCT CODE: EH5116-50

INTENDED USE: PROTECTIVE COATING FRO BRASS, ALUMINUM, STAINLESS STEEL, & DIE CAST ZINC
SPECIAL HANDLING: NORMAL FOR FLAMMABLE MATERIALS
SHELF LIFE: 12 MONTHS @ 70-80°F (MATERIAL OLDER THAN THIS SHOULD BE TESTED BEFORE USE)

VISCOSITY: 21 – 26" / # 3 EZ ZAHN CUP
SOLIDS: 33 +/- 2.0 % (WT) 45 +/- 2.0 % (VOL)
VOC (AS SHIPPED): 370 g/L VOC wt % = 67 %
LBS HAPS/LBS SOLIDS: 0.12

LOWEST FLASHPOINT TCC: 1°F
WT/GAL: 9.07 +/- 0.2 #
3.09 #/GAL (MINUS EXEMPT)

METHOD OF APPLICATION: DIP
SUBSTRATE: BRASS, ALUMINUM, STAINLESS STEEL, DIE CAST ZINC
PREPARATION: CLEAN AND DRY
REDUCTION: N / A
APPLICATION VISC: ~ 21 – 26 "/ #3 EZ ZAHN CUP
WET FILM THICKNESS: ~ 5 MILS
DRY FILM THICKNESS: ~ 1 MILS
CURE/BAKE: N/A

GLOSS: 80+ @ 60 DEGREE GEOMETRY

CLEAN-UP SOLVENTS: ORGANIC SOLVENTS IN COMPLIANCE WITH LOCAL REGULATIONS

NOTES:

MACT Subpart MMMM $\frac{\text{lb HAP}}{\text{gal solids}} < 2.6$

$0.12 \frac{\text{lb HAP}}{\text{lbs solids}} * \frac{0.33 \text{ lbs solids}}{1 \text{ lb paint}} * \frac{9.07 \text{ lb paint}}{1 \text{ gal paint}} * \frac{1 \text{ gal Paint}}{0.45 \text{ gal solids}} = 0.798 \frac{\text{lb HAP}}{\text{gal solids}}$

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: H.S. FRAZIER BLUE **HMIS CODES: H F R P**
PRODUCT CODE: EH5116-50-01 **2*3 0**

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: TRINKOTE INDUSTRIAL FINISHES
ADDRESS : 1800 PARK PLACE AVE.
FORT WORTH, TX 76110

EMERGENCY PHONE : 1-800-424-9300 **DATE PRINTED : 8/3/2007**
INFORMATION PHONE : 817/926-5683 **NAME OF PREPARER : TRINKOTE INDUSTRIAL**

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE MM HG @ TEMP		WEIGHT PERCENT
Mineral Spirits	8052-41-3	<2.25	68 F	10% - 20%
ACGIH TLV-TWA = 25 ppm				
ACGIH STEL = 15 ppm				
ACGIH CEILING = N.E.				
OSHA PEL = 25 ppm				
OSHA CEILING = N.E.				
BARIUM SULFATE	7727-43-7	NA	NA	5% - 10%
ACGIH TLV-TWA = 5 mg/m3				
ACGIH STEL = N.E.				
ACGIH CEILING = N.E.				
OSHA PEL = 15 mg/m3				
OSHA CEILING = N.E.				
* Toluene	108-88-3	22	68 F	5% - 10%
ACGIH TLV-TWA = 50 ppm				
ACGIH STEL = 150 ppm				
ACGIH CEILING = N.E.				
OSHA PEL = 200 ppm				
OSHA CEILING = 300 ppm				
Aromatic Hydrocarbon	64742-95-6	2.09	68 F	5% - 10%
ACGIH TLV-TWA = 25 ppm				
ACGIH STEL = 150 ppm				
ACGIH CEILING = N.E.				
OSHA PEL = 25 ppm				
OSHA CEILING = N.E.				
* 1,2,4-Trimethylbenzene	95-63-6			3% - 5%
ACGIH TLV-TWA = N.E.				
ACGIH STEL = N.E.				
ACGIH CEILING = N.E.				
OSHA PEL = N.E.				
OSHA CEILING = N.E.				
Titanium Dioxide	13463-67-7	NA	NA	3% - 5%
ACGIH TLV-TWA = N.E.				
ACGIH STEL = N.E.				
ACGIH CEILING = N.E.				
OSHA PEL = 15 mg/m3				
OSHA CEILING = 10 mg/m3				
1,3,5-Trimethylbenzene	108-67-8	0.88	60 F	1% - 3%
ACGIH TLV-TWA = 25 ppm				
ACGIH STEL = N.E.				

ACGIH CEILING = N.E.				
OSHA PEL = 25 ppm				
OSHA CEILING = N.E.				
Parachlorobenzotrifluoride	98-56-6	5.3	20 C	1% - 3%
ACGIH TLV-TWA = N.E.				
ACGIH STEL = N.E.				
ACGIH CEILING = N.E.				
OSHA PEL = N.E.				
OSHA CEILING = 25 ppm				
* Cumene	98-82-8	9.7	68 F	< 1%
ACGIH TLV-TWA = 50 ppm				
ACGIH STEL = N.E.				
ACGIH CEILING = N.E.				
OSHA PEL = 50 ppm				
OSHA CEILING = N.E.				
* Silica - Amorphous	7631-86-9	NA	NA	< 1%
ACGIH TLV-TWA = 10 mg/m3				
ACGIH STEL = N.E.				
ACGIH CEILING = N.E.				
OSHA PEL = 80 mg/m3				
OSHA CEILING = N.E.				
* Ethyl benzene	100-41-4	9.6	77 F	< 1%
ACGIH TLV-TWA = 100 ppm				
ACGIH STEL = 125 ppm				
ACGIH CEILING = N.E.				
OSHA PEL = 100 ppm				
OSHA CEILING = 125 ppm				
* Xylene	1330-20-7	6.15	68 F	< 1%
ACGIH TLV-TWA = 100 ppm				
ACGIH STEL = 125 ppm				
ACGIH CEILING = N.E.				
OSHA PEL = 100 ppm				
OSHA CEILING = 150 ppm				
* N-Methylpyrrolidone	872-50-4	.32 mbar	68 F	< 1%
ACGIH TLV-TWA = N.E.				
ACGIH STEL = N.E.				
ACGIH CEILING = N.E.				
OSHA PEL = N.E.				
OSHA CEILING = N.E.				

*INDICATES TOXIC CHEMICAL(S) "SUBJECT" TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372. ALL COMPONENTS OF THIS PRODUCT ARE PRESENT ON THE UNITED STATES TOXIC SUBSTANCES CONTROL ACT(TSCA) CHEMICAL SUBSTANCES INVENTORY.

========== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS ==========

BOILING RANGE: 0.00 - 399.74 F
SPECIFIC GRAVITY (H2O=1): 1.07
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: Slower than ether.
COATING V.O.C.: 3.26 lb/gl
MATERIAL V.O.C.: 3.23 lb/gl
COATING GR/LT: 391 g/l
MATERIAL GR/LT: 387 g/l
SOLUBILITY IN WATER: MATERIAL IS NOT WATER SOLUBLE AND/OR DISPERSABLE IN WATER.
APPEARANCE AND ODOR: LIQUID WITH SOLVENT ODOR.

========== SECTION IV - FIRE AND EXPLOSION HAZARD DATA ==========

FLASH POINT: 0

FLASH POINT IS WORST CASE SCENARIO **METHOD USED:**

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 0.00 **UPPER:** 13.3

EXTINGUISHING MEDIA: Foam, CO2, dry chemical.

SPECIAL FIREFIGHTING PROCEDURES

NONE KNOWN. HOWEVER, FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS TO AVOID INHALATION IF MATERIAL IS INVOLVED IN A GENERAL FIRE.

FULL PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED. WATER SPRAY MAY BE INEFFECTIVE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTO-IGNITION OR EXPLOSION FROM HEATING.

UNUSUAL FIRE AND EXPLOSION HAZARDS

HANDLE AS IGNITABLE LIQUID. KEEP CONTAINERS TIGHTLY CLOSED AND ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS OR FLAME. VAPORS FORM AND EXPLOSIVE MIXTURE IN AIR BETWEEN THE UPPER AND LOWER EXPLOSIVE LIMITS. NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

SECTION V - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID

Poor ventilation.

INCOMPATIBILITY (MATERIALS TO AVOID)

ALKALINE MATERIALS, STRONG ACIDS AND OXIDIZING MATERIALS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

THERMAL DECOMPOSITION OR COMBUSTION CAN PRODUCE FUMES OF CARBON DIOXIDE AND CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

VAPOR OR MIST CAN CAUSE HEADACHE, NAUSEA AND IRRITATION OF THE NOSE,THROAT,AND LUNGS IN POORLY VENTILATED ARES. SOLVENT VAPOR OR MIST CAN CAUSE DIZZINESS,BREATHING DIFFICULTY, HEADACHES, IRRITATION TO NOSE AND THROAT, LOSS OF COORDINATION. CONTINUED OVER-EXPOSURE CAN LEAD TO CENTRAL NERVOUS SYSTEM DEPRESSION.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SKIN CONTACT:IRRITATING TO THE SKIN ON REPEATED OR PROLONGED CONTACT. EYE CONTACT: DIRECT CONTACT MAY CAUSE EYE IRRITATION.

SKIN CONTACT: CAN CAUSE IRRITAITON. CAN CAUSE DEFATTING OF SKIN WHICH CAN LEAD TO DERMATITIS. EYE CONTACT: LIQUID OR VAPOR CAN CAUSE IRRITATION, TEARING DISCOMFORT, REDNESS AND BLURRED VISION.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

LIQUID CAN BE ABSORBED THROUGH SKIN CAUSING IRRITATION, DEFATTING AND DERMATITIS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

CAN CAUSE GASTROINTESTINAL IRRITATION.

CAN CAUSE MOUTH,THROAT,ESOPHAGUS AND STOMACH IRRITATION,NAUSEA,VOMITING, AND DIARRHEA.

HEALTH HAZARDS (ACUTE AND CHRONIC)

ACUTE EFFECTS ARE LISTED ABOVE.

REPORTS HAVE ASSOCIATED REPEATED OR PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING CONTENTS MAY BE HARMFUL OR FATAL.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: Yes

OSHA REGULATED: Yes

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

N/A

EMERGENCY AND FIRST AID PROCEDURES

Inhalation - Move person to fresh air. Eye contact - Flush immediately with a large amount of water for at least 20 minutes and get medical attention. Skin contact - Wash thoroughly with soap and water while removing contaminated clothing and shoes. Ingestion - Do not induce vomiting! Contact physician or your local poison control center immediately if ingestion occurs.

========== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ==========

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

DIKE SPILL AREA AND ADD ABSORBENT EARTH, SAND OR SAWDUST TO SPILLED LIQUID. KEEP OUT OF SEWERS.

ELIMINATE ALL SOURCES OF IGNITION (FLAMES, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS). AVOID BREATHING VAPORS. VENTILATE AREA. CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. KEEP OUT OF SEWERS.

WASTE DISPOSAL METHOD

COLLECT ABSORBENT/SPILLED LIQUID INTO METAL CONTAINERS. DISPOSE OF IN ACCORDANCE WITH LOCAL,STATE,AND FEDERAL REGULATIONS. DON NOT INCINERATE CLOSED CONTAINERS. INCINERATE IN APPROVED FACILITY. OBEY RELEVANT LAWS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

KEEP AWAY FROM EXCESSIVE HEAT, SPARKS OR OPEN FLAMES. KEEP CONTAINERS CLOSED WHEN NOT IN USE. STORE IN COOL,WELL VENTILATED APPROVED AREAS. AVOID FREE FALL AND GROUND CONTAINER WHEN POURING. USE NON-SPARKING UTENSILS WHEN HANDLING THIS MATERIAL. KEEP CONTAINERS CLOSED AND UPRIGHT WHEN NOT IN USE.

KEEP FROM FREEZING! KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. WASH THOROUGHLY AFTER HANDLING.

OTHER PRECAUTIONS

DO NOT TAKE INTERNALLY. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED TO COMPLY WITH OSHA 1910.106. EMPTIED CONTAINERS MAY RETAIN HAZARDOUS RESIDUE AND EXPLOSIVE VAPORS. KEEP AWAY FROM HEAT, SPARKS AND FLAMES. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR EMPTIED CONTAINERS. WASH HANDS AFTER USING AND BEFORE SMOKING OR EATING. FOLLOW ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET UNTIL CONTAINER IS THOROUGHLY CLEANED OR DESTROYED. KEEP OUT OF REACH OF CHILDREN.

========== SECTION VIII - CONTROL MEASURES ==========

RESPIRATORY PROTECTION

DO NOT "INTENTIALLY" BREATHE VAPORS OR SPRAY MIST. IF YOUR COMPANIES SPRAYING CONDITIONS ARE HAZARDOUS, WEAR AN APPROPRIATE, PROPERLY FITTED RESPIRATOR (NIOSH/MSHA APPROVED) DURING THE USE OF THIS PRODUCT UNTIL VAPOR AND MISTS LEVELS ARE BELOW APPLICABLE EXPOSURE LIMITS. OBSERVE OSHA STANDARD 29CFR1910.1343. WE DO NOT KNOW THE CONDITIONS IN

WHICH YOU WILL BE UTILIZING THIS PRODUCT, THEREFORE, EACH COMPANY MUST MAKE INDIVIDUAL JUDGEMENT CALLS BASED UPON THEIR PLANT. MANY COMPANIES MAY BE ABLE TO UTILIZE THIS PRODUCT WITHOUT THE USE OF RESPIRATORS IF CONDITIONS PERMIT.

VENTILATION
N/A

PROTECTIVE GLOVES
POLYETHYLENE HANDLING GLOVES FOR SKIN PROTECTION. MUST BE IMPERVIOUS TO WATER AND SOAP.
USE CHEMICAL/SOLVENT IMPERMEABLE GLOVES TO AVOID CONTACT WITH PRODUCT.

EYE PROTECTION
Use chemical safety glassses or goggles (ANSI 287.1-1968).
Avoid contact with eyes. Use safety eyewear with splash guards or side shields, chemical goggles, or face shields.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
PROVIDE EYEWASH STATION AND EMERGENCY SHOWER. USE OF PROTECTIVE CREAMS, HEAD CAPS, ETC. IS RECOMMENDED. AVOID CONTACT WITH CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING, INCLUDING SHOES, BEFORE REUSE.

WORK/HYGIENIC PRACTICES
WASH HANDS BEFORE EATING OR USING WASHROOM, SMOKE IN SMOKING AREAS ONLY.

SECTION IX - DISCLAIMER

To the best of our knowledge, the information contained herein is based on data considered accurate. No warranty expressed or implied is made. Trinkote Industrial Finishes assumes no responsibility for damage to person, property or business caused by the material. It is the responsibility of the purchaser or user of the material to ensure that it is properly used. This MSDS is intended for OSHA regulating purposes only. It is not intended for the reporting of emissions, storm water, waste, or pollution reporting. Any and all such information is made available by specific requests through the Compliance or Laboratory Offices of Trinkote Industrial Finishes.

NOTES

N/A

ORANGE PAINT

MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS AND RELATED MATERIALS

HAZARD RATING 0 - MINIMAL 3 - SERIOUS
1 - SLIGHT 4 - SEVERE
2 - MODERATE * - CHRONIC

HMIS RATING HEALTH - * 3 FLAMMABILITY - 2 REACTIVITY - 0

SECTION I

SHEBOYGAN PAINT COMPANY
1439 NORTH 25th STREET / P.O. BOX 417
SHEBOYGAN, WI 53082-0417

DATE OF PREPARATION 02/09/07
EMERGENCY TELEPHONE (920) 458-2157
EMAIL: custserv@shebpaint.com
TRANSPORTATION EMERGENCY (800) 688-4005

PRODUCT CLASS	TRADE NAME	MFG PRODUCT NO.
SURFACE COATING	NEW FAST DRY ORANGE HI-SOLIDS	43-62154A
	SUPERCEDED BY 43-62154B	

SECTION II - HAZARDOUS INGREDIENTS

NT	INGREDIENT	CAS#	ACGIH TLV PPM	ACGIH TLV mg/m3	ACGIH STEL PPM	ACGIH STEL mg/m3	OSHA PEL PPM	OSHA PEL mg/m3	OSHA CEILING PPM	OSHA CEILING mg/m3	LEL % VOLUM	VAPOR PRESS mm/Hg DEG F	% BY Wght
A	1,2,4-Trimethylbenzene	95-63-6	25.00	123.0	-----	-----	25.00	125.0	-----	-----	0.900	1.000 @ 56.	9.33
	Aromatic Petroleum Distillate	64742-95-6	-----	-----	-----	-----	100.0	-----	-----	-----	1.000	3.000 @ 68.	
C	n-Butyl Alcohol (skin)	71-36-3	-----	-----	-----	-----	100.0	300.0	50.00	152.0	1.400	4.400 @ 68.	2.50
C	Xylene (mixed isomers) VHAP	1330-20-7	100.0	434.0	150.0	651.0	100.0	435.0	-----	-----	1.000	5.100 @ 68.	1.39
	1,3,5-Trimethylbenzene	108-67-8	-----	-----	-----	-----	-----	-----	-----	-----	1.000	----- @ ---	
	Titanium Dioxide (dust)	13463-67-7	-----	10.00	-----	-----	-----	15.00	-----	-----	-----	----- @ ---	
WI	Talc (dust)	14807-96-6	-----	2.000	-----	-----	-----	2.000	-----	-----	-----	----- @ ---	3.03
	Barium Compound (Insoluble)	7727-43-7	-----	10.00	-----	-----	-----	5.000	-----	-----	-----	----- @ ---	18.0
	C.I. Pigment Orange #5	3468-63-1	-----	-----	-----	-----	-----	-----	-----	-----	-----	----- @ ---	
	Iron (III) Oxide (dust)	20344-49-4	-----	5.000	-----	-----	-----	10.00	-----	-----	-----	----- @ ---	
	Aromatic Terpene Polymer	64536-06-7	-----	-----	-----	-----	-----	-----	-----	-----	-----	----- @ ---	

A -This toxic chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372). VHAP = VOLATILE HAZARDOUS AIR POLLUTANT (VAPOR)
HAP = HAZARDOUS AIR POLLUTANT (SOLID)

C -This toxic chemical is subject to the reporting requirements of both Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372) and the Wisconsin Dept. of Natural Resources Administrative Code Chapter NR445.
VHAP = VOLATILE HAZARDOUS AIR POLLUTANT (VAPOR) HAP = HAZARDOUS AIR POLLUTANT (SOLID)
(skin) = OSHA Skin Absorption Hazard

WI-This chemical is subject to reporting procedures outlined in the Wisconsin Department of Natural Resources Administrative Code Chapters NR438 and/or NR445.

SECTION III - PHYSICAL DATA

BOILING RANGE 241-390 F VOC KG/KG SOLIDS=.46 VOC (WITH WATER AND EXEMPT SOLV) = 3.25 LBS/GAL 389 GMS/LITER
% HAPS BY WEIGHT= 2.09 VOC (LESS WATER AND EXEMPT SOLV) = 3.25 LBS/GAL 389 GMS/LITER

VAPOR DENSITY	EVAPORATION RATE	%VOLATILE BY WEIGHT	%VOLATILE BY VOLUME	WEIGHT PER GALLON	SPECIFIC GRAVITY	AVG SOLV DENSITY
VAPOR DENSITY HEAVIER THAN AIR	EVAPORATION RATE SLOWER THAN ETHER	31.28	45.06	10.3936	1.248	7.22

$0.02 \frac{lb\ HAPs}{lb\ paint} * 10.3936 \frac{lb\ paint}{1\ gal\ paint} * \frac{1\ gal\ Paint}{0.5494\ gal\ solids} = 0.378 \frac{lb\ HAPs}{gal\ solids}$

SECTION IV - FIRE & EXPLOSION HAZARDS

PROPER SHIPPING NAME - PAINT, 3, UN1263, III (FLASH POINT > 100 DEGREES)
SHIPPING LABEL - NOT REGULATED IF QTY. LESS THAN 119 GALLONS FLASHPOINT 102 (ASTM D3828)

EXTINGUISHING MEDIA: Use carbon dioxide or dry chemical for small fires. For large fires, use an alcohol-type or multi-purpose foam extinguishing agent. Water may be ineffective to extinguish fires involving this type of product.
UNUSUAL FIRE & EXPLOSION HAZARDS: Handling dry materials or dust created from this product may pose an explosion hazard. Use explosion proof equipment. Avoid dust accumulations. Always electrically bond/ground processing equipment. Use good housekeeping practices to keep dust to a minimum. Smoke from burning product may be toxic. Spilled product, residue, or dust may burn fiercely if ignited. Runoff firefighting water may contain toxic or acidic materials.
SPECIAL FIRE FIGHTING PROCEDURES: Water may be used to cool closed containers to prevent pressure buildup. Keep people away from any fire fighting operations involving chemicals. Wear a self-contained positive pressure breathing apparatus in addition to full protective gear.

SECTION V - HEALTH HAZARD

EFFECTS OF OVEREXPOSURE: Irritation of the respiratory tract or acute nervous system depression characterized by headache dizziness, staggered gait, confusion, unconsciousness, coma. There is no applicable information available regarding the carcinogen potential for this product as a whole, however any relevant information regarding any ingredient's status as a potential, suspect, or confirmed carcinogen is listed in SECTION V of the MSDS.
Chronic overexposure may damage the liver and/or kidneys, blood cells, cause cardiac sensations, hearing effects, and/or cause birth or fertility defects in lab animals.
Repeated and prolonged exposure to some solvents has been associated with permanent brain and nervous system damage.
Intentional misuse by deliberately concentrating & inhaling vapors from this product may be harmful or fatal.
Exposure limits for n-Butanol: (CAS# 71-36-3 Butyl Alcohol) ACGIH(TLV): Ceiling = 50 ppm or 152 mg/m3.
This product contains 1,2,4-trimethylbenzene which is on the New Jersey and Pennsylvania Right-to-Know lists.
(Pseudocumene) CAS #96-63-3
This product contains aromatic naphtha, light which is on the Pennsylvania Right-to-Know list. CAS# 64742-95-6
This product contains n-Butyl Alcohol which is on the Pennsylvania & New Jersey Right-to-Know Lists.
Chemical Name: 1-Butanol CAS# 71-36-3
Ingestion of alcohol can increase the effects of overexposure from some solvents in this product.
Exposure to XYLENE can affect the cardiovascular, pulmonary, CNS, and gastrointestinal systems. Liver enzymes, serum electrolytes, EKG and chest X-ray should be done in cases of massive exposure to xylene.
ETHYLBENZENE (CAS# 100-41-4) is present in this product. Ethylbenzene has been classified by IARC as a possible human carcinogen group 2B. * Ethylbenzene is a potential chronic health hazard and is on the New Jersey Right-to-Know list.
This product contains xylenes, mixed isomers which is on the New Jersey and Pennsylvania Right-to-Know Lists.
(benzene, dimethyl-) CAS# 1330-20-7
This product contains 1,3,5-trimethylbenzene which is on the New Jersey Right-to-Know List. CAS# 108-67-8
This product contains Titanium Dioxide, which is currently listed by OSHA and ACGIH as a nuisance dust hazard.
Exposure Limits for Titanium Dioxide(dust): OSHA (PEL): TWA =15 mg/m3 (total dust) 5mg/m3 (respirable)
ACGIH(TLV): TWA =10 mg/m3 (total dust).
Prolonged and continuous exposure to excessive concentration of dust of any kind without using a dust mask may have an adverse pulmonary effect on some people. This overexposure may result in coughing, sputum, and reduced lung capacity. Pre-existing asthmatic conditions may worsen. Persons with lung diseases should not work in dusty areas unless a physician certifies their fitness to wear a respirator. (OSHA 1910.134). Liquid paint does not readily release dust.
This product contains Talc (containing no asbestos) which is currently listed by OSHA & ACGIH as a nuisance dust hazard.
Prolonged exposure to dried talc particles can result in scarring of the lungs (talcosis) or of the covering of the lungs (pleural thickening). Excessive exposure to any dust may aggravate pre-existing respiratory conditions. Wet paint and paint overspray does not retain the hazardous properties of the dust particles.
Exposure Limits For Talc (containing no asbestos fibers): OSHA (PEL): TWA = 2 mg/m3 (respirable dust).
ACGIH(TLV): TWA = 2 mg/m3 (respirable fraction).
Exposure Limits For Inert and Nuisance Dust Particulates Not Otherwise Classified: OSHA (PEL): TWA =15 mg/m3 (total dust) 5 mg/m3 (respirable fraction). ACGIH(TLV): TWA = 10 mg/m3 (total dust).
This product contains Barium Sulfate which is listed by OSHA and ACGIH as a nuisance dust. Long term overexposure to barium sulfate dust may produce benign Pneumoconiosis termed "baritosis" and may reduce lung functions.
Exposure Limits For Barium Sulfate: (CAS# 7727-43-7) OSHA (PEL): TWA =10 mg/m3 (total dust), 5 mg/m3 (respirable)
ACGIH(TLV): TWA =10 mg/m3 (total dust).
This product contains Barium Sulfate which is on the New Jersey, Massachusetts or Pennsylvania Right-to-Know Lists.
CAS #7727-43-7

This product contains C.I. Pigment Orange #5 which has been reported to be an invitro mutagen. The FDA has concluded that this pigment is an animal carcinogen by ingestion. Liver effects have also been observed in laboratory animal tests. There are no definitive findings linked to humans.
Chronic overexposure may cause allergic skin reactions, respiratory irritation, inflammation and asthma-like symptoms.
This product contains an organic pigment which is listed as a hazardous substance. If exposed to high temperatures or fire for an extended period of time, the product may smolder or burn giving off noxious fumes which can include oxides of nitrogen and carbon or other toxic compounds.
This product contains Iron Oxide, which is currently listed by OSHA & ACGIH as a fume hazard. Overexposure to dried particles may pose hazards to the eyes, ears & nose. Injury to the skin or mucous membranes can occur by rigorous skin cleaning or direct mechanical abrasion. Long term exposure to dust without respiratory protection may cause siderosis, a benign pneumoconiosis. Wet paint or paint overspray would not retain the hazardous properties of the dust particles.
This product contains C.I. Pigment Yellow #42 which is on the Pennsylvania Right-to-Know List. CAS# 20344-49-4
This product contains trace amounts of naturally occuring arsenic, chromium and nickel. These metals have not been added but are part of the pigment mineral ore. Potential exposure to the California Prop 65 chemicals in this pigment have been determined to be below the No Significant Risk Level (NSRL).
Exposure Limits For Iron Oxide (fume): (CAS# 1309-37-1) OSHA (PEL): TWA =10 mg/m3 (as total particulates)
ACGIH(TLV): TWA = 5 mg/m3.
MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Preexisting eye, skin, central nervous system, digestive tract, and respiratory tract. May adversely affect persons with liver, kidney & blood forming organ disorders.
ROUTE(S) OF ENTRY: Inhalation, skin contact absorption, eye contact. Products that are free-flowing liquids or pastes are not expected to have routes of exposure for dust. Dried product residue may exhibit dust inhalation hazards.
INHALATION: May cause slight to moderate respiratory tract irritation accompanied by congestion, headache, weakness, dizziness, drowsiness, and/or nausea. FIRST AID: Move person to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and get immediate emergency medical assistance.
EYE CONTACT: Liquid, vapor or dust may cause moderate to severe irritation, redness, tearing, blurred vision & pain. Prolonged or chronic overexposure may cause eye damage. FIRST AID: Flush eyes with large amounts of water for at least 15 minutes. Hold eyelids apart to flush the entire contaminated area. Get medical help if irritation persists.
SKIN CONTACT: May cause moderate to severe skin irritation. May cause burning sensations, defatting and/or dermatitis. Chronic overexposure may cause skin cracking and/or eczema. FIRST AID: Remove contaminated clothing and shoes. Wash area with soap and water. Get medical attention as needed.
SKIN ABSORPTION: May be absorbed through skin tissues. Chronic overexposure to the skin without using protective barriers (gloves, aprons, etc.) may cause toxic effects.
INGESTION: Single dose oral toxicity is low. May cause irritation to the gastrointestinal tract. Ingestion may cause nausea, discomfort, diarrhea, dizziness and vomiting. FIRST AID: DO NOT INDUCE VOMITING! Contents of this product pose an inhalation hazard. If aspirated into the lungs, may cause chemical pneumonitis and/or pulmonary edema which can be fatal. Never leave individual unattended, keep head low to prevent aspiration. SEEK IMMEDIATE MEDICAL ATTENTION!

SECTION VI - REACTIVITY DATA

STABILITY: ____UNSTABLE _XX_STABLE
INCOMPATABILITY (Materials to avoid): Keep away from all oxidizing materials, avoid strong acids & alkalis (caustics) and never distill solvents to dryness. Material can react violently under such conditions.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon/nitrogen, metal oxides and/or silicon dioxide fumes and other toxic or irritating vapors such as incompletely burned hydrocarbons, aldehydes, amines, HCN and/or sulfur oxides.
HAZARDOUS POLYMERIZATION: ____May Occur _XX_Will Not Occur
CONDITIONS TO AVOID: Container is not a pressure vessel. Never use pressure to empty. Do not drag, puncture or drop container (prevent sparking). Dust particles from this product may pose a flammable or explosion hazard. Avoid dust accumulations. Containers should be grounded.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition(flames), electrical static or frictional sparks. Provide good ventilation to spill area. Dike spill area and add inert absorbent. Remove spilled material with non-sparking tools. Avoid breathing vapors and use respirator protective devices (SEE SECTION VIII). Only properly trained personnel should clean spilled hazards. Follow local, state and federal spill notification rules.
WASTE DISPOSAL: Consult licensed waste handling and/or transportation facility. Follow local, state and federal waste regulations. Do not incorporate into municipal sewage treatment facilities. Empty containers retain product residue, follow label and MSDS warnings even after container is emptied.

SECTION VIII - SAFE HANDLING & USE INFO

RESPIRATORY PROTECTION: In outdoor or open areas with unrestricted ventilation, use NIOSH approved dust mask to protect from overspray or solid airborne particulates. In restricted areas, use a NIOSH approved combination organic vapor and particulate respirator. In confined areas, use an airline type respirator hood or self contained breathing apparatus. Consult the OSHA confined space regulations.
VENTILATION: Provide sufficient ventilation to keep hazards at levels below current ACGIH TLV and OSHA PEL of the most hazardous ingredient in SECTION II. Solvent vapors must be removed from the lower levels of work areas and all ignition sources eliminated. Remove decomposition products formed by welding or flame cutting coated surfaces. Dust and particle hazards are elevated during sanding, grinding, or surface preparation of previously coated surfaces.
SKIN PROTECTION REQUIREMENTS: Chemical resistant gloves are recommended. Use neoprene, nitrile, or butyl rubber. Cover as much of the exposed skin as possible with appropriate impervious clothing. If skin creams are used, keep the area protected by the cream to a minimum. Do not use skin creams to protect skin when working with acids or acid catalysts.
EYE PROTECTION: Eye protection should be worn in any type of industrial operation. The use of chemical goggles and a full face shield to prevent splash from liquids is recommended. Contact lenses should not be worn.
OTHER PROTECTIVE EQUIPMENT: Using a suit or apron to prevent contamination of clothing is recommended. Prevent prolonged skin contact with contaminated clothing. Remove and wash all contaminated clothing before re-use. Never wear contaminated clothes or shoes away from the workplace. Use an industrial type professional cleaning service, do not wash at home.
HYGIENIC PRACTICES: Emergency eye wash stations and safety showers are recommended. Wash hands prior to eating, using the washroom or smoking. Precautions must be taken so that persons handling this product do not breathe the vapors or have it contact the skin or eyes. In spray operations, protection must be afforded against exposure to both vapor and spray mist.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store large quantities in buildings designed and protected for storage of flammable liquids. Reference storage conditions in OSHA 1910.106. Avoid high temperature areas and open flames. Do not store above 120 F. Keep closures tight and container upright to avoid leakage.
OTHER PRECAUTIONS: Maintain a clean work area. Use only in a well ventilated area. VHAP=VOLATILE HAZARDOUS AIR POLLUTANT
CAUTION! DO NOT TAKE INTERNALLY. Avoid breathing vapor/dust.
NOTICE: The HMIS rating for this material involves data and interpretations compiled from the various material suppliers of the component ingredients. This information will vary from supplier to supplier. The rating is intended for rapid and general identification of this product's hazards. To adequately deal with the safe handling of this material, all information contained in the MSDS must be reviewed as part of an ongoing Hazard Communication Program.
This product complies with the Toxic Substances Control Act (TSCA) 40 CFR 700-799. The Material Safety Data Sheet (MSDS) complies with 29 CFR 1910.1200, Hazardous Communication Std. In the event of a TRANSPORTATION RELATED INCIDENT involving this product, CALL 1-800-688-4005.
WARNING! Sudden release of hot organic chemical vapors from equipment operating at elevated temperatures or sudden introduction to vacuum conditions may result in vapor ignition.
SARA Title III: This product is regulated under Section 311- 312 (40CFR370): Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard, Fire Hazard.
WARNING! This product contains chemicals known to the State of California to cause cancer or reproductive harm.

AROMATIC 100

ExxonMobil Chemical

AROMATIC 100 FLUID

Hydrocarbon Fluid

Product Properties

Property	Test Method	Unit	Typical Value
Aromatics Content	ASTM D 1319	vol%	>99
Color	ASTM D 156	Saybolt	+30
Distillation range	ASTM D 86	°C	
Initial boiling point			161
Dry point			171
Flash Point	ASTM D 56	°C	46
Kauri-Butanol Value	ASTM D 1133	-	92
Specific Gravity	ASTM D 4052	15.6 °C/15.6 °C	0.874

$= 7.29$ lb/gal

Note:
Values indicated describe typical physical properties and do not constitute specification limits.
This product typically contains less than 1 ppm benzene.

solids vol % $= 0.01 \frac{\text{gal solids}}{\text{gal fluid}}$

HAPs wt % $= 0.037 \frac{\text{lb HAPs}}{\text{lb fluid}}$

MACT Subpart MMMM $\frac{\text{lb HAP}}{\text{gal solids}} < 2.6$

$0.037 \frac{\text{lb HAPs}}{\text{lb fluid}} \times \frac{7.29 \text{ lb fluid}}{1 \text{ gal fluid}} \times \frac{1 \text{ gal fluid}}{0.01 \text{ gal solids}} = 26.97 \frac{\text{lb HAPs}}{\text{gal solids}}$

U.S./Mexico/Canada

February 2005

008 08/17/06 AROMATIC 100

PRODUCT NAME: AROMATIC 100

MSDS NUMBER: EQ940652

DATE ISSUED: 05/23/2006

SUPERSEDES: 02/27/2003

ISSUED BY: 008505

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MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AROMATIC 100

CHEMICAL NAME:
Aromatic Hydrocarbon 64742-95-6

CHEMICAL FAMILY:
Petroleum Hydrocarbon

PRODUCT DESCRIPTION:
Clear colorless liquid.

Distributed by:
Univar USA Inc.
17425 NE Union Hill Road
Redmond, WA 98052
425-889-3400

EMERGENCY TELEPHONE NUMBERS: (24 Hours)
CHEMTREC (800) 424-9300

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

The composition of this mixture may be proprietary information. In the event of a medical emergency, compositional information will be provided to a physician or nurse.
This product is hazardous as defined in 29 CFR1910.1200, based on the following compositional information:

OSHA HAZARD	COMPONENT
Combustible	Petroleum Hydrocarbons
OSHA PEL;ACGIH TLV	Trimethylbenzene
OSHA PEL;ACGIH TLV	Xylene
OSHA PEL;ACGIH TLV	Cumene

SECTION 3 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE CONTACT:
Slightly irritating but does not injure eye tissue.

SKIN CONTACT:
Frequent or prolonged contact may irritate and cause dermatitis. Low order of toxicity.
Skin contact may aggravate an existing dermatitis condition.

INHALATION:

High vapor/aerosol concentrations (attainable at elevated temperatures well above ambient) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death

INGESTION:
Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.
Minimal toxicity.

SECTION 4 FIRST AID MEASURES

EYE CONTACT:
Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

SKIN CONTACT:
Flush with large amounts of water; use soap if available.
Remove grossly contaminated clothing, including shoes, and launder before reuse.

INHALATION:
Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

INGESTION:
If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

SECTION 5 FIRE-FIGHTING MEASURES

FLASH POINT:	108 Deg F. METHOD: TCC ASTM D56 NOTE: Minimum
FLAMMABLE LIMITS:	LEL: 0.9 UEL: 6.0 @ 77 Deg F. NOTE: Approximate
AUTOIGNITION TEMP.:	894 Deg F.

GENERAL HAZARD
Combustible Liquid, can form combustible mixtures at temperatures at or above the flashpoint.
Static Discharge, material can accumulate static charges which can cause an incendiary electrical discharge .
"Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

FIRE FIGHTING
Use water spray to cool fire exposed surfaces and to protect personnel.
Isolate "fuel" supply from fire.
Use foam, dry chemical, or water spray to extinguish fire.
Avoid spraying water directly into storage containers due to danger of boilover.
This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS
No Unusual

SECTION 6 ACCIDENTAL RELEASE MEASURES

LAND SPILL
Eliminate sources of ignition. Prevent additional discharge of material, if

possible to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities. Also, if this product is subject to CERCLA reporting (see Section 15 REGULATORY INFORMATION) notify the National Response Center.
Prevent liquid from entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust.
Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent.
Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

WATER SPILL
Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear. Remove from surface with suitable adsorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in non-confined waters.
Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

SECTION 7 STORAGE AND HANDLING

ELECTROSTATIC ACCUMULATION HAZARD
Yes, use proper bonding and/or grounding procedure.
Additional information regarding safe handling of products with static accumulation potential can be ordered by contacting the American Petroleum Institute (API) for API Recommended Practice 2003, entitled "Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents" (American Petroleum Institute, 1220 L Street Northwest, Washington, DC 20005), or the National Fire Protection Association (NFPA) for NFPA 77 entitled "Static Electricity" (National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101).

STORAGE TEMPERATURE Deg F:
Ambient

LOADING/UNLOADING TEMPERATURE Deg F:
Ambient

STORAGE/TRANSPORT PRESSURE mmHg:
Atmospheric

LOADING/UNLOADING VISCOSITY cSt:
0.9

STORAGE AND HANDLING:
Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials.
Do NOT handle or store near an open flame, heat or other sources of ignition. Protect material from direct sunlight.
Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS
The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a lab hood. Provide mechanical ventilation of confined spaces. See respiratory protection recommendations.

PERSONAL PROTECTION
For open systems where contact is likely, wear safety glasses with side shields, long sleeves, and chemical resistant gloves.
Where contact may occur, wear safety glasses with side shields.
Where concentrations in air may exceed the limits given in this Section and engineering, work practice or other means of exposure reduction are not adequate, NIOSH approved respirators may be necessary to prevent overexposure by inhalation.

WORKPLACE EXPOSURE GUIDELINES
OSHA REGULATION 29CFR1910.1000 REQUIRES THE FOLLOWING PERMISSIBLE EXPOSURE LIMITS:
A TWA of 25 ppm (125 mg/m3) for Trimethyl Benzene.
A TWA of 100 ppm (435 mg/m3) and a STEL of 150 ppm (655 mg/m3) for Xylenes.
A TWA of 50 ppm (245 mg/m3) for Cumene (skin).
The recommended permissible exposure levels indicated above reflect the levels revised by OSHA in 1989 or in subsequent regulatory activity. Although the 1989 levels have since been vacated by the 11th Circuit Court of Appeals, Vendor recommends that the lower exposure levels be observed as reasonable worker protection.
THE ACGIH RECOMMENDS THE FOLLOWING THRESHOLD LIMIT VALUES:
A TWA of 25 ppm (123 mg/m3) for Trimethyl Benzene.
A TWA of 100 ppm (434 mg/m3) and a STEL of 150 ppm (651 mg/m3) for Xylene, with an A4 designation.
A TWA of 50 ppm (246 mg/m3) for Cumene.
Vendor RECOMMENDS THE FOLLOWING OCCUPATIONAL EXPOSURE LIMITS: a TWA of 100 mg/m3 (19 ppm) based on total hydrocarbon.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY at Deg F:	0.87 at 60
DENSITY at Deg F:	7.3 lbs/gal at 60
VAPOR PRESSURE, mmHg at Deg F:	2.09 at 68 Approximate
SOLUBILITY IN WATER, wt. % at Deg F:	0.02 at 77 Calculated
VISCOSITY OF LIQUID, cSt at Deg F:	0.9 at 77 Approximate
SP. GRAY. OF VAPOR, at 1 atm (Air=1):	4.47
FREEZING/MELTING POINT, Deg F:	7
EVAPORATION RATE, n-Bu Acetate=1:	0.3
BOILING POINT, Deg F:	318 to 338

SECTION 10 STABILITY AND REACTIVITY

STABILITY:
Stable

CONDITIONS TO AVOID INSTABILITY:
Not applicable

HAZARDOUS POLYMERIZATION:
Will not occur

CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION:
Not Applicable

MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY:
Nitric acid, sulfuric acid, strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:
None

SECTION 11 TOXICOLOGICAL INFORMATION

Please refer to Section 3 for available information on potential health effects.

SECTION 12 ECOLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

SECTION 13 DISPOSAL CONSIDERATIONS

Please refer to Sections 5, 6 and 15 for disposal and regulatory information.

SECTION 14 TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT):
DOT SHIPPING DESCRIPTION: PETROLEUM DISTILLATE, N.O.S., COMBUSTIBLE LIQUID UN 1268, III
Note: In containers of 119 gallons capacity or less this product is not regulated by DOT.

SECTION 15 REGULATORY INFORMATION

TSCA:
This product is listed on the TSCA Inventory as a UVCB (Unknown, Variable Composition or Biological) Chemical at CAS Registry Number 64742-95-6 Clean Water Act/Oil Pollution Act:
This product is classified as an oil under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Act of 1990. Discharge or spills which produce a visible sheen on either surface water, or in waterways/sewers which lead to surface water, must be reported to the National Response Center at 800-424-8802.

CERCLA:
This product, as sold, is derived from a fraction of crude oil and is excluded from the spill reporting requirements by CERCLA Section 101(14)(F). When this product is used in a mixture or as an ingredient in another product or in a manufacturing operation, the petroleum exclusion may terminate and an accidental spill may require reporting to the National Response Center at 800-424-8802.
This product contains approximately 2.2% of Xylene.
The RQ for Xylene is 100 pounds.
This product contains approximately 2% of Cumene.
The RQ for Cumene is 5,000 pounds.

SARA TITLE III:
Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories:
Delayed Health, Fire.
This information may be subject to the provisions of the Community Right-to-Know Reporting Requirements (40 CFR 370) if threshold quantity criteria are met.
This product contains the following Section 313 Reportable Ingredients:

COMPONENT	CAS #	MAX. %
1,2,4-Trimethylbenzene	95-63-6	32.0
Xylene	1330-20-7	2.2 – VHAP
Cumene	98-82-8	1.5 – VHAP

SECTION 16 OTHER INFORMATION

NOTES:
Contains approximately 25 ppm BHT as an antioxidant to protect product quality.

HAZARD RATING SYSTEMS:
This information is for people trained in:
National Paint & Coatings Association's (NPCA)
Hazardous Materials Identification System (HMIS)
National Fire Protection Association (NFPA 704)

Identification of the Fire Hazards of Materials

	NPCA-HMIS	NFPA 704	KEY
HEALTH	1	1	4= Severe
FLAMMABILITY	2	2	3= Serious
REACTIVITY	0	0	2= Moderate
			1= Slight
			0= Minimal

CAUTION: HMIS ratings are based on a 0-4 rating scale with 1 representing minimal hazards or risks, and 4 representing significant hazards or risks. Recommended HMIS ratings should not be used in the absence of a fully implemented HMIS hazard communication program.

---------- FOR ADDITIONAL INFORMATION ----------

CONTACT: MSDS COORDINATOR UNIVAR USA INC.
DURING BUSINESS HOURS, PACIFIC TIME (425)889-3400

---------- NOTICE ----------

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* * * E N D O F M S D S * * *